

CLAIMS

Claims 1- 31 (Cancelled).

32. (Currently Amended) An apparatus comprising:

a first pilot valve in fluid communication with a gas inlet and a pilot burner;

a second pilot valve in fluid communication with the gas inlet and the pilot burner;

a selectable input device that is manually operable to select a temperature setting and that can open the first pilot valve to allow gas flow from the gas inlet through the first pilot valve to the pilot burner and that can close the first pilot valve to oppose gas flow from the gas inlet through the first pilot valve to the pilot burner;

one or more thermal detection devices in thermal communication with the pilot burner, the one or more thermal detection devices being able to output a variable voltage potential upon being heated; and

a controller that can receive the variable output voltage potential from the one or more thermal detection devices and that can use the variable output voltage potential to power an electric servo operator pilot valve that can open the second pilot valve when the controller supplies power to it and that can close the second pilot valve when the controller stops supplying power to it, and wherein when open the second pilot valve can ~~and~~ maintain gas flow from the gas inlet through the second pilot valve to the pilot burner; and

~~an electric servo operator pilot valve that can open the second pilot valve when the controller supplies power to it and that can close the second pilot valve when the controller stops supplying power to it; and~~

wherein the only voltage potential needed to power the controller can be supplied by the one or more thermal detection devices.

33. (Currently Amended) The apparatus of claim 32, wherein the one or more thermal detection devices can cut power to the controller ~~can be cut~~ when a pilot flame at the pilot burner is extinguished, and wherein gas flow to the pilot burner will be stopped when the power to the controller is cut.

34. (Cancelled)

35. (Currently Amended) The apparatus of claim 32, wherein the selectable input device is electrically connected to the controller and ~~can be used to cut~~ power to the controller, and wherein gas flow to the pilot burner will be stopped when the power to the controller is cut.

36. (Cancelled)

37. (Previously Presented) The apparatus of claim 32, further comprising a main valve in fluid communication with the gas inlet and a main burner outlet.

38. (Currently Amended) The apparatus of claim ~~37~~32, further comprising a potentiometer coupled to the selectable input device, the potentiometer being able to output to the controller an indication of a position of the input device, wherein:

when the selectable input device is positioned ~~can be used~~ to select a temperature setting, and the controller can responsively open the main valve to allow gas to flow to one or more main burners and the controller can control the flow of gas through the main valve to reach and/or maintain the selected temperature.

39. (Currently Amended) The apparatus of claim ~~37~~32, wherein the controller can further use the variable output voltage potential to power an electric servo operator main valve that can open the main valve when the controller supplies power to it and that can close the main valve when the controller stops supplying power to it, and wherein the one or more thermal detection devices can cut power to the controller ~~can be cut~~ when a burner flame at the main burner outlet is extinguished, and wherein gas flow to the main burner outlet will be stopped when the power to the controller is cut.

40. (Currently Amended) The apparatus of claim 38, wherein the controller can further use the variable output voltage potential to power an ~~further comprising an~~ electric servo operator main valve that can open the main valve when the controller supplies power to it and that can close the main valve when the controller stops supplying power to it.

41. (Currently Amended) The apparatus of claim 32, wherein the selectable input device is electrically connected to the controller and ~~can be used to cut power to the controller~~, and wherein gas flow to the main burner will be stopped when the power to the controller is cut.

42. (Currently Amended) The apparatus of claim 40, wherein the controller can further use the variable output voltage potential to power an ~~further comprising an~~ electric servo operator main valve that can open the main valve when the controller supplies power to it and that can close the main valve when the controller stops supplying power to it.

43. (Previously Presented) The apparatus of claim 32, further comprising a power converter that can modify the voltage potential that can be produced by the one or more thermal detection devices.

44. (Previously Presented) The apparatus of claim 32, wherein the controller comprises a microprocessor.

45. (New) The apparatus of claim 32, wherein the selectable input device comprises a rotary dial that includes a plurality of positions.

46. (New) The apparatus of claim 45, wherein at least some of the plurality of positions comprise a plurality of temperature settings.